

ABSTRACT OF THE DISCLOSURE

A separating unit determines, for an image data, whether there exists black data, and generates density data from the black data when the black data exists, and generates color data from data other than the black data. A multinarizing unit converts the color data into multinary data. A magnification varying unit varies the density data and the color data multinarized, using a cubic function convolution method. A binarizing unit binarizes the color data varied, based on a predetermined threshold. An image forming unit prints the color data binarized and the density data varied, onto a recording medium.